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APPLICATION NO.	FILING DATE .	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/657,851	09/09/2003	Christopher J. Murphy	TPLANT-08360	2123
	23535 7590 07/17/2007 MEDLEN & CARROLL, LLP		EXAMINER	
101 HOWARD STREET		•	LIU, SAMUEL W	
SUITE 350 SAN FRANCISCO, CA 94105		•	ART UNIT	PAPER NUMBER
			1656	
	•	. :		
			MAIL DATE	DELIVERY MODE
•		•	07/17/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/657,851	MURPHY ET AL.
Office Action Summary	Examiner	Art Unit
	Samuel W. Liu	1656
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with	the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statul Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reposite will apply and will expire SIX (6) MONTH te, cause the application to become ABA	ATION. ly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133)
Status		
Responsive to communication(s) filed on 3/9/ 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matte	1
Disposition of Claims		
4) Claim(s) 53-67 is/are pending in the application 4a) Of the above claim(s) <u>none</u> is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 53,56,59,60,63 <u>and 66</u> is/are rejected 7) Claim(s) 54,55,57,58,61,62,64,65 <u>and 67</u> is/at 8) Claim(s) are subject to restriction and/ Application Papers 9) The specification is objected to by the Examination 10 The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the	wn from consideration. d. re objected to. or election requirement. er. cepted or b) objected to b	
Replacement drawing sheet(s) including the corre		•
11) The oath or declaration is objected to by the E	examiner. Note the attached	Office Action or form P1O-152.
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Ap ority documents have been r au (PCT Rule 17.2(a)).	plication No eceived in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 3/9/07.	Paper No(s)	mmary (PTO-413) /Mail Date ormal Patent Application

DETAILED ACTION

Status of claims

Claims 53-67 are pending.

The terminal disclaimer filed 4/13/07 disclaiming the terminal portion of any patent granted on this application, which would extend beyond the expiration date of US Pat. NO. 6696238 has been reviewed and are accepted. The amendment filed 3/9/07, which cancels claims 1-52, amends claims 55, 58-60 and 66-67 has been entered. Claims 53-67 are examined in this Office action.

IDS

The references cited in the IDS filed 3/9/07 which can be found in the parent application 09917340 have been considered by Examiner.

Withdrawal of the objections and rejections

- The objection to the specification is withdrawn in light of the amendment to the specification.
 - •The objection to Figure 9 is withdrawn in light of the amendment to the figure.
- •The rejection of claim 58 under 35 USC, second paragraph is withdrawn in light of the amendment to the claim.
- •The obviousness double patenting rejection of claims 53 and 56-62 over US Pat. No. 6696238 is now withdrawn in light of filed the terminal disclaimer.

New-Duplicate Claims -Warning

Applicant is advised that should claims 66 and 60 be found allowable, claims 66 and 60 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims

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in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

New-Claim Rejections - 35 USC §102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 53, 56, 59-60, 63 and 66 are rejected under 35 U.S.C. 102(b) as being anticipated by Kwock et al. (J. Nutr. (1984) 114, 1451-1461).

Kwock et al. teach a cow milk composition comprising ferric iron bound lactobionate (see Table 3, page 1457). Since the cow milk contains the average level of IGF-1 of 3.7 ng/ml (see "Discussion of art"-1), Kwock et al. inherently teach the composition of claim 53.

It is of note that "for organ preservation" in claim 53 refers to an intended use and has no patentable weight.

Because the milk comprises the antimicrobial peptide, e.g., nisin, in the milk (see "Discussion of art"-2), the above Kwock et al. teaching inherently anticipates claim 56.

The nisin peptide in said milk is about 0.045 mg/ml (45 ng/ml) (see "Discussion of art"-2), which anticipates claim 59.

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Since the raw milk comprises nerve growth factor (see "Discussion of art"-3), the above Kwock et al. teaching inherently anticipates claim 63.

Since Ferric iron bound lactobionate has 17.1% retention in the cow's milk (see Table), and since the cow's milk contains 0.15 mg/100 ml (see "Discussion of art"-4) and iron has molecular weight of 55.84, the result of calculation ([0.15/100/55.84]× 17.1% mole in 1000 ml) is ~ 4.6 mM, which inherently anticipates claim 60 and 66.

Claims 54-55, 57-58, 61-62, 64-65 and 67 are objected to as being dependent upon a rejected base claim 53, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

No claims are allowed.

The following art made of record and not currently relied upon in any rejections is considered pertinent to Applicants' disclosure:

- (1) Goldstein et al. (*J. Reproduct. Med.* (2007) 52, 140-141) teach that cow milk contains the average level of IGF-1 of 3.7 ng/ml (page 140).
- (2) Hakovirta et al. (*Appl. Environ. Microb.* (20060 72, 1001-1005) teach that there is the detectable level (~ 45 ng/ml) of antimicrobial peptide nisin in the milk (see page 101, left column, and Table 2, page 1004).
- (3) Raw-milk-facts ("Hormones and growth factors in raw milk" (2007, updated)

 http://www.raw-milk-facts.com/hormones.html, pages 1-7) teach the raw milk comprises nerve growth factor.

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(4) Frederick et al. (J. Biol. Chem. (1931), 92, 237-240) teach cow's milk contains 0.15

mg/ml (cc) of iron.

* The art doe not teach level of nerve growth hormone (NGF) in either cow or human

milk, nor the ratio of NGF to IGF-1, the art does not teach instant claim 64 limitation.

Conclusion

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel Wei Liu whose telephone number is 571-272-0949. The examiner can normally be reached from 9:00 a.m. to 5:00 p.m. on weekdays. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kathleen Kerr Bragdon, can be reached on (571) 272-0931. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval IPAIRI system. Status information for published applications may be obtained from either Private PAIR or Public PAG. Status information for unpublished applications is available through Private PAG only. For more information about the PAN system, see http://pairdirect.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SWL

Samuel Wei Liu, Ph.D.

Patent Examiner, Art Unit 1656

July 1, 2007

PERVISORY PATENT EXAMINER

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